

Out 33
(a) a nucleotide sequence encoding a polypeptide having leuD activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:47, 49, 51, or 53 have at least 80% sequence identity based on the Clustal alignment method, or

Out 4
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(b) the complement of the nucleotide sequence, wherein the complement and the nucleotide sequence contain the same number of nucleotides and are 100% complementary.

28. "added" The polynucleotide of Claim 27 wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:47, 49, 51, or 53 have at least 90% sequence identity based on the Clustal alignment method.

29. "added" The polynucleotide of Claim 27 wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:47, 49, 51, or 53 have at least 95% sequence identity based on the Clustal alignment method.

30. "added" The polynucleotide of Claim 27 wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:47, 49, 51, or 53.

31. "added" The polynucleotide of claim 27 wherein the nucleotide sequence comprises the nucleotide sequence of SEQ ID NO:46, 48, 50, or 52.

6 32. "added" A vector comprising the polynucleotide of Claim 27.

7 33. "added" A recombinant DNA construct comprising the polynucleotide of Claim 27 operably linked to a regulatory sequence.

8 34. "added" A method for transforming a cell comprising transforming a cell with the polynucleotide of Claim 27.

9 35. "added" A cell comprising the recombinant DNA construct of Claim 33.

36. "added" A method for producing a plant comprising transforming a plant cell with the polynucleotide of Claim 27 and regenerating a plant from the transformed plant cell.

37. "added" A plant comprising the recombinant DNA construct of Claim 33.

38. "added" A seed comprising the recombinant DNA construct of Claim 33.

39. "added" An isolated polynucleotide comprising a first nucleotide sequence, wherein the first nucleotide sequence contains at least 30 nucleotides, and wherein the first nucleotide sequence is comprised by another polynucleotide, wherein the other polynucleotide includes:

(a) a second nucleotide sequence, wherein the second nucleotide sequence encodes a polypeptide having leuD activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:47, 49, 51, or 53 have at least 80% sequence identity based on the Clustal alignment method, or

(b) the complement of the second nucleotide sequence, wherein the complement and the second nucleotide sequence contain the same number of nucleotides and are 100% complementary.

As ¹⁰
~~49~~. "added" A method for isolating a polypeptide encoded by the polynucleotide of
Claim ~~27~~ comprising isolating the polypeptide from a cell containing a recombinant DNA
construct comprising the polynucleotide operably linked to a regulatory sequence.

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